

# MATERIAL SAFETY DATA SHEET

1. CHEMICAL PROD	UCT AND COMPANY IDENTIFICATION	
PRODUCT NAME:	Construction Dry Sand	
MSDS REVISION DATE:	August, 2000	
CHEMICAL NAME:	SiO <sub>2</sub>	
FORMULA: Mixture		
MANUFACTURER/SUPPLIER		

Ross Island Sand & Gravel Co. Mailing Address: 4315 SE McLoughlin Blvd. PO Box 82249

Portland, Oregon 97202 Portland, Oregon 97282

Emergency/Non-Emergency Number: (503) 239-5504 Monday-Friday 8-5 PST

2. COMPOSITION	ON/INFOR	MATION INGREDIEN	ITS	
[30] · 其中,我们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个		EXPOSURE LIMITS		
INGREDIENT NAME	CAS#	OSHA (mg/m³)	ACGIH (mg/m³)	%
Silicon Dioxide. SiO <sub>2</sub> (amorphous)	68855-54-9	3.8 total dust based on maximum free silica	10 total dust	0-91
Particulate, Not Otherwise Classified	N/A	15 total dust 5 respirable	10 inhalable dust 3 respirable dust	0-90
Silicon Dioxide, SiO <sub>2</sub> (free silica)	14808-60-7	2.7 total dust 0.91 respirable dust based on maximum free silica	0.1 respirable dust	0-9

## 3. HAZARDS IDENTIFICATION

\* \* \* \* \* \* \* EMERGENCY OVERVIEW \* \* \* \* \* \* \*

White or tan sand. Free crystalline silica may cause cancer.

**ROUTES OF ENTRY:** Inhalation

**HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:** 

**ACUTE INHALATION:** Dust may mechanically irritate respiratory system and

cause coughing.

**ACUTE SKIN CONTACT:** Dust may cause mechanical irritation.

**ACUTE EYE CONTACT:** Dust may cause mechanical irritation.

**ACUTE INGESTION:** None expected.

**CHRONIC INHALATION:** Dust may cause silicosis, shortness of breath caused by lung scaring, pain in chest and coughing. Prolonged exposure to silica in the form of quartz or cristobalite is associated with increased risk of lung cancer.

#### CARCINOGENICITY:

**ACGIH:** Free crystalline silica is listed as a suspected human carcinogen in

the Notice of Intended Changes.

**NTP:** Respirable silica may reasonably be anticipated to be carcinogenic.

**IARC:** Crystalline silica in the form of quartz or critobalite has been

classified as carcinogenic.

OSHA: No

## 3. HAZARDS IDENTIFICATION cont'd.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Persons with impaired respiratory function will be more susceptible to the effects of the dust.

#### 4. FIRST AID MEASURES

**INHALATION:** Remove victim to fresh air, if not breathing, give artificial

respiration. If any symptoms or irritation persist, contact a physician.

**SKIN:** Wash with normal soap and water.

EYE: Flush with large amounts of water for 15 minutes. If any symptoms or

irritation persist, contact a physician.

**INGESTION:** Do not induce vomiting, give large quantities of water or milk. If

any symptoms or irritation persist, contact a physician.

### 5. FIRE FIGHTING MEASURES

**FLASH POINT:** Not Combustible

**AUTO IGNITION TEMPERATURE:** Not Applicable

LOWER FLAMMABLE LIMIT: Not Applicable

**UPPER FLAMMABLE LIMIT:** Not Applicable

HAZARDOUS COMBUSTION PRODUCTS: None, not combustible

FIRE AND EXPLOSION HAZARD: Not sensitive to explosion. Will not support

combustion.

**EXTINGUISHING MEDIA:** Not combustible. Use media appropriate for

surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Does not burn. SCBA required for

standard firefighting.

#### 6. ACCIDENTAL RELEASE MEASURES:

**SPILL OR LEAK PROCEDURES:** Stop source of spill. Scoop up spilled powder avoiding dust conditions. Wet sweeping may be used to avoid dusting. Wear appropriate Personal Protective Equipment.

## 7. HANDLING AND STORAGE:

**HANDLING AND STORAGE PRECAUTIONS:** Protect against physical damage. Mechanical filter dust masks may be required if excessive dust occurs during handling.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

**EYE PROTECTION:** Safety glasses with sideshields or mechanical goggles for

dust.

**SKIN PROTECTION:** None required other than that for personal hygiene. To

reduce exposure, work clothing should be left at the workplace.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION: cont'd.

**RESPIRATORY PROTECTION:** Use NIOSH approved respirators with High Efficiency Particulate Air (HEPA) or P100 filters when exposure limits are or may be exceeded. Higher dust levels may require a powered air purifying respirator with a HEPA or P100 filter or a positive pressure supplied air respirator.

**ENGINEERING CONTROLS:** Minimize or control dust generating activities. If excessive dust levels are generated at transfer points, local exhaust ventilation may be needed.

9. PHYSICAL AND CHEMICA	L PROPERTIES:	
PHYSICAL STATE/APPEARANCE:	Solid, white or tan	sand
BOILING POINT:	None	ODOR: None
MELTING/FREEZING POINT:		)°F)
SOLUBILITY IN WATER:	Insoluble	<b>pH:</b> 6-8
SPECIFIC GRAVITY:	2.5 – 3.0	
% VOLATILE BY WEIGHT:	Not Applicable	
VAPOR PRESSURE:	Not Applicable	
VAPOR DENSITY: Not Applicable		

10. REACTIVITY/STABILITY:	
STABILITY: Stable	
CONDITIONS OF REACTIVITY:	Not Applicable
HAZARDOUS POLYMERIZATION:	Will not occur
<b>INCOMPATIBILITIES:</b> Not Applicat	ole
<b>DECOMPOSITION PRODUCTS:</b>	None

11. TOXICOLOGICAL INFORMATION:	
LD <sub>50</sub> :	Not determined
LC <sub>50</sub> :	Not determined
SENSITIZATION TO PRODUCT:	None
CARCINOGENICITY:	Contains free crystalline silica, a human
	carcinogen.
IRRITANCY OF PRODUCT:	None, other than mechanical
REPRODUCTIVE TOXICITY:	No information available
TERATOGENICITY:	No information available
MUTAGENICITY:	No information available
CHRONIC EXPOSURE:	See Section 3
NAME OF TOXICOLOGICALLY	Known lung carcinogens
SYNERGISTIC PRODUCTS:	

# 12. ECOLOGICAL INFORMATION: None available

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# 13. DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHOD: Follow federal, state, and local regulations.

# 14. TRANSPORTATION INFORMATION: Not regulated

15. REGULATORY INFORMATION:			
<b>OSHA:</b> Hazard Communication standard applies to this product for constituents			for constituents
listed in Section 2.			
TSCA: None			
<b>CERCLA REPORTABLE QUANTIT</b>	CERCLA REPORTABLE QUANTITY: None		
SARA TITLE III:			
Section 302 Extremely Hazardous Substance: None			e
Section 311/312 Hazard Categories: None			
Section 313 Toxic Chemicals: None			
RCRA: None			
STATE REGULATORY INFORMAT			ing chemicals are
specifically listed by individual states; other product specific health and safety data in			
other section of the MSDS may also be applicable for state requirements. For details			
on specific regulatory requirements	, contact the ap	propriate state	e agency.
COMPONENT NAME	CAS#	CONC. %	STATE CODE
Crystalline Silica	14808-60-7	0-9	CA Proposition 65

<ol><li>16. OTHER INFORMA</li></ol>	TION:
MSDS STATUS:	Replaces MSDS dated 9/18/92
REVISION NUMBER:	Version 2.0
PREPARED BY:	Paul Carlson Associates, Inc.
	Milwaukie, Oregon
	(503) 652-6040
DICCI ATMED. The informer	tion contained in this form is based on data from sources

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